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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,856	12/26/2001	Dairi Kubo	216376US0PCT	8457
22850	7590 12/18/2002			
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC			EXAMINER	
FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY ARLINGTON, VA 22202		MILLER, EDWARD A		
ARLINGTO	N, VA 22202		ART UNIT	PAPER NUMBER
			3641	

DATE MAILED: 12/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		9					
	Application No.	Applicant(s)					
	10/018,856	KUBO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Edward A. Miller	3641					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on	<u> </u>						
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.						
3) Since this application is in condition for allowa							
closed in accordance with the practice under a Disposition of Claims	<i>Ex раπе Quayle</i> , 1935 С.D. 11, 4	.53 O.G. 213.					
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-27</u> is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine							
10)☐ The drawing(s) filed on is/are: a)☐ accep							
Applicant may not request that any objection to the		• •					
11) The proposed drawing correction filed on		ved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3 		y (PTO-413) Paper No(s) Patent Application (PTO-152)					
S. Patent and Trademark Office							

Application/Control Number: 10/018,856

Art Unit: 3641

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanda et al. in view of Lundstrom et al. '929, Cabrera, Ito et al. '500, Lundstrom et al. '269 and Yoshikawa et al. Kanda et al. teach the basic invention for example at col. 6, lines 1-20, including about the particle size, but does not teach a secondary fuel such as guanidine nitrate. See also col. 10, lines 27-62. However, the use of a supplemental fule is notoriously well known and show by Lundstrom et al. '929, in the Abstract, col. 2, lines 20-58 the examples, such as in Tables 1-2, col. 5. Thus, it would have been obvious to add a secondary fuel and vary the specific amounts and types as desired. Although the particle size therein is not clear, it is clear that the particles are ground, col. 7, lines 57-62. In Cabrera, col. 4, lines 1-14, suggestions for particle size are found, which are in general accord with those set forth herein. Further, Ito et al. at col. 8, lines 43-49 suggest that tetrazoles and guanidine compounds are similar as fuels, and that the particle size, col. 9, lines 9-20, should be regulated to be between 5 to less than 80 microns. Thus, it would have been obvious to use a particle size within the Cabrera range for tetrazoles, or within ordinary experimentation to be the value now claimed. The other ingredients are well known and shown generally in the additional references. Variation thereof and the amounts and specific particle size would have been obvious to one of ordinary skill in the art. It is well settled that optimizing a result effective variable is well within the expected ability of a person or ordinary skill in the subject art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980), In re Aller, 220 F.2d 454, 105 USPQ 233 (CCPA 1955).

Art Unit: 3641

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Noet that Ludwig, col. 21, line 9, Ludwig et al., col. 21, line 45 suggest 10 micron GN, and Ramaswamy et al., in the paragraph bridging col. 3-4, further teaches regarding particle size.
- 4. Any inquiry concerning either this or an earlier communication from the Examiner should be directed to Examiner Edward A. Miller at (703) 306-4163. Examiner Miller may normally be reached Monday-Thursday, from 10 AM to 7 PM.

If attempts to reach Examiner Miller by telephone are unsuccessful, his supervisor Mr. Carone can be reached at (703) 306-4198. The Group fax number is (703) 305-7687.

If there is no answer, or for any inquiry of a general nature or relating to the application status, please call the Group receptionist at (703) 308-1113.

Miller/em
December 15, 2002

COMMEDAMMATO P. MACAME YEARAND